

Practical Laboratories 2

Module Information

2022.01, Approved

Summary Information

Module Code	4006APCHEM
Formal Module Title	Practical Laboratories 2
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Practical	78

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	This course will focus on simple organic and inorganic synthesis. It will also build on the areas covered in Practical Labs 1, applying isolation and analytical techniques to the products obtained from the contained chemical syntheses/conversions.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Synthesise simple organic molecules.
MLO2	2	Synthesise simple inorganic compounds.
MLO3	3	Assay simple organic and inorganic compounds using Physical and Analytical Chemistry.
MLO4	4	Select and use functional group tests in order to distinguish between chemical samples.

Module Content

Outline Syllabus	Functional group chemistry and reactions; aromatic chemistry; simple polymer synthesis; determination of kinetic and thermodynamic properties; basic chemistry of inorganic compounds.
Module Overview	In this module you will be introduced to laboratory synthesis and testing in the areas of Organic, Inorganic and Analytical Chemistry. As with the other Level 4 practical modules, this module underpins the material aspect of the course. You will focus on simple organic and inorganic synthesis alongside applying isolation and analytical techniques to the products obtained from contained chemical syntheses, as introduced in Practical Labs 1.
Additional Information	The course provides an introduction to laboratory synthesis and testing in the areas of Organic, Inorganic and Analytical Chemistry. As with the other level four practical module, this also introduces and underpins the materials aspect of the course.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Test	Online Test	50	0	MLO1, MLO2, MLO3, MLO4
Centralised Exam	Practical Report	50	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Wainwright	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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